STATE FOREST LAND
ENVIRONMENTAL CHECKLIST

Purpose of Checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decided whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can. *Questions in italics are supplemental to Ecology's standard environmental checklist. They have been added by the DNR to assist in the review of state forest land proposals. Adjacency and landscape/ watershed-administrative-unit (WAU) maps for this proposal are available on the DNR internet website at http://www.dnr.wa.gov under "SEPA Center." These maps may also be reviewed at the DNR regional office responsible for the proposal. This checklist is to be used for SEPA evaluation of state forest land activities.*

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later. *All of the questions are intended to address the complete proposal as described by your response to question A-11. The proposal acres in question A-11 may cover a larger area than the forest practice application acres, or the actual timber sale acres.*

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered " does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NON PROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer" and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:

   Timber Sale Name: ***KARI RAT*** *Agreement #:*30-084830

2. Name of applicant:
   Washington State Department of Natural Resources

3. Address and phone number of applicant and contact person:
   Mike Potter
   Department of Natural Resources
   411 Tillicum Lane
   Forks, WA 98331
   (360) 374-6131

4. Date checklist prepared: **07/27/2009**

5. Agency requesting checklist:
   Washington State Department of Natural Resources

6. Proposed timing or schedule (including phasing, if applicable):

   a. *Auction Date:***12/30/2010**
   b. *Planned contract end date (but may be extended):* **12/31/2012**
   c. *Phasing:* **N/A**

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

   Timber Sale

   a. *Site preparation:* **None Anticipated**

   b. *Regeneration Method:*
   TSU NO :1 HAND PLANT 12/01/2011 72 Acres

   c. *Vegetation Management:* **Needs to be assessed 5 –7 years after harvest.**

   d. *Thinning:* **Needs to be assessed 8-10 years after harvest.**

   Roads: **N/A**

Rock Pits and/or Sale: **N/A**

Other: **N/A**

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

☒*303 (d) – listed water body in WAU:* ☒*temp* ☐*sediment* ☐*completed TMDL (total maximum daily load):*
☐*Landscape plan:*
☐*Watershed analysis:*
☐*Interdisciplinary team (ID Team) report:*
☒*Road design plan:* **Dated Aug.13 2009**
☐*Wildlife report:*
☐*Geotechnical report:*
☐*Other specialist report(s):*
☐*Memorandum of understanding (sportsmen's groups, neighborhood associations, tribes, etc.):*
☒*Rock pit plan:* **Place Pit**
☒*Other:* **Final Habitat Conservation Plan (September 1997); State Soil Survey; Interim Marbled Murrelet strategy; Forestry Handbook (August 1999). Sustainable Harvest Calculation (Sept 2004)**

All documents may be obtained at the Olympic Region Office for review during the SEPA comment period.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. **Not applicable**

10. List any government approvals or permits that will be needed for your proposal, if known.

☐*HPA* ☒*Burning permit* ☐*Shoreline permit* ☒*Incidental take permit* ☒*FPA* ☒*Other:* **Board of Natural Resources approval.**

11. Give brief, complete description of our proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include specific information on project description.)

a. *Complete proposal description:*
This proposed timber sale is located approximately 14 road miles West of Port Angeles, Washington off the PA-J-1000 and 1600 road system. It is located within both the Sutherland-Aldwell and Salt Creek WAU's of the North Crescent LPU. Kari Rat is a single unit timber sale proposal encompassing approximately 74 acres with an approximate sale volume of 1,982 mbf. Of the total acres assessed for potential harvest, approximately 72 acres will be variable retention harvested while approximately 1.3 acres has been left in Leave Tree Areas. Additionally 0.5 Right of Way acres will be harvested with an approximate volume of 2 mbf.

b. *Timber stand description pre-harvest (include major timber species and origin date), type of harvest, overall unit objectives.*
Pre-Harvest Stand Description:
Kari Rat is composed of second-growth conifer timber originating after harvest in the early 1930's. The average DBH found in this proposal is approximately 14 inches. The understory consists of heavy salal in places while other areas are relatively barren.

Type of Harvest:
This proposal will be a variable retention harvest of approximately 1,982 mbf of second growth conifer timber. The proposed harvest will utilize cable yarding and or ground based logging methods.

Unit Objectives:
Objectives for this proposal are to provide financial benefit to the Clallam County State Forest Board trust under the guidelines provided by Forest Practice rules and the DNR's Habitat Conservation Plan (HCP). Specific objectives include green tree retention plan, protection of soils and procedures pertaining to threatened and endangered species. An average of eight trees per acre have been left aggregated and dispersed throughout the proposed units. Large, structurally unique trees and snag recruitment trees were chosen for individual retention as well as exposed wind firm trees along windward edges of the stands. These marked leave trees and leave tree clumps will expedite the development of a more diverse, multi-storied canopy layer in the future stand. Contract language and equipment limitations will help reduce soil impacts. No rubber tired skidders will be allowed and harvest operations will be suspended during periods of wet weather.

c. *Road activity summary. See also forest practice application (FPA) for maps and more details.*

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction		1,658	.5	0
Reconstruction		0		0
Abandonment		0	0	0
Bridge Install/Replace	0			0
Culvert Install/Replace (fish)	0			0
Culvert Install/Replace (no fish)	12			

In addition there will be approximately 13,958 feet of pre-haul maintenance performed on existing roads with this proposal. This work will consist of brushing, ditching, grading and applying rock.

12. Location of proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist. *(See timber sale map available at DNR region office, and/or color landscape/WAU map on the DNR website http://www.dnr.wa.gov under "SEPA Center.")*

a. Legal description:

T30N R8W S22
T30N R8W S23

b. *Distance and direction from nearest town (include road names):*
This proposed timber sale is located approximately 14 road miles West of Port Angeles, Washington off of the PA-J-1600 road system.

c. *Identify the watershed administrative unit (WAU), the WAU Sub-basin(s), and acres. (See also landscape/WAU map on DNR website http://www.dnr.wa.gov under " SEPA Center.")*

WAU Name	WAU Acres	Proposal Acres
SUTHERLAND-ALDWELL	49624.5	71
SALT CREEK	28404.6	<1

13. *Discuss any known future activities not associated with this proposal that may result in a cumulative change in the environment when combined with the past and current proposal(s). (See digital ortho-photos for WAU and adjacency maps on DNR website http://www.dnr.wa.gov under "SEPA Center" for a broader landscape perspective.)*

This proposal is located within both the Salt Creek and Sutherland-Aldwell WAU's. The Salt Creek WAU has mixed forestland ownership with the major landowners being private landowners and the Washington State Department of Natural Resources. Tribal landowners own less than one percent of the total WAU acreage. State and private forestland ownerships are generally scattered throughout the elevation range within the WAU. The DNR has approximately 11,955 acres of ownership within the Salt Creek WAU, which equates to approximately 42% of the total WAU acreage. Approximately 347 acres of these lands have seen regeneration harvests within the past seven years. The following table breaks down land ownership within the Salt Creek WAU.

Land Manager	Acres	% of WAU
DNR	11955	42.1
Tribal	23	0.1
Other Land (Private & Other Public Land)	16427	57.8

The Sutherland-Aldwell WAU has mixed forestland ownership with the major landowners being the United States Forest Service, Private landowners and the Department of Natural Resources. State and private forestland ownerships are generally scattered throughout the WAU with most being in the lower elevations. The United States Forest Service ownerships are concentrated in both the higher elevations and the lowlands, while small private landowners are scattered along the major transportation routes in the lower elevations. The DNR has approximately 6,173 acres of ownership within the Sutherland-Aldwell WAU, which equates to approximately 12% of the total WAU acreage. Approximately 368 acres of these lands have seen regeneration harvests within the past seven years. The following table breaks down land ownership within the Sutherland-Aldwell WAU.

Land Manager	Acres	% of WAU
DNR	6173	12.4
Federal	31557	63.6
Other State (Non-DNR)	122	0.2
Tribal	585	1.2
Other Land (Private & Other Public Land)	11188	22.5

Over the past 5 – 10 years private industrial forestlands scattered within the WAU's have reached rotation age and are currently being harvested on an estimated rotation cycle of 40 – 50 years under the prescriptions of the forest practice laws. Federal timberlands have seen very little final harvest activities since the early 1980's and are not anticipated to change for the foreseeable future. This proposal is located within DNR managed land, which has specific riparian, spotted owl and marbled murrelet conservation strategies which are managed under the departments Habitat Conservation Plan.

The DNR has an HCP agreement with the federal government concerning threatened and endangered species and their habitats, which requires the department to manage landscapes with the intent to preserve and enhance habitat used by fish and older forest dependent species. This agreement substantially helps the department to mitigate for any potential harmful cumulative effects related to its management activities. The HCP is designed to protect and promote fish and wildlife species and their habitats over a broad regional area. The applicable HCP strategies incorporated into this proposal are as follows:

- **Avoiding harvest on unstable slopes,**
- **Retaining a minimum of 8 leave trees per acre dispersed and aggregated throughout the proposal.**
- **Designing, constructing, and maintaining a road system to minimize potential adverse effects on the environment.**

- **Procedures pertaining to threatened and endangered species.**

Several measures have been taken to ensure that this proposal will not contribute to the potential for adverse environmental impacts.

All current and future activities will be conducted in accordance with the State's HCP, Policy for Sustainable Forests, and State Forest Practices Rules, and are expected to mitigate for any potential adverse cumulative effects. Several measures have been taken to reduce the risk of negative environmental impacts. 0.02 percent of the gross proposal acreage will remain in Leave Tree Areas. Dispersed and clumped leave trees will provide structure for many wildlife species to use, and reduce the visual impacts of the harvest. An average of eight trees per acre will be retained. Assessments have been performed to evaluate the potential use of the proposal area by threatened and endangered species, and other species of concern. A State geologist has also examined the proposal area to evaluate the risks of potential unstable terrain. There were no areas of concern found during this field visit. Road network planning and road design have been performed in order to minimize the amount of permanent road construction needed, and to ensure the quality of existing and newly constructed roads. Ground yarding operations shall be suspended during periods of severe wet soil conditions when rutting of skid roads begins. Equipment restrictions will also be applied in order to prevent rutting and minimize soil disturbance.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (check one):

☒Flat, ☐Rolling, ☐Hilly, ☒Steep Slopes, ☐Mountainous, ☐Other:

1) *General description of the WAU or sub-basin(s) (landforms, climate, elevations, and forest vegetation zone).*
The Salt Creek WAU ranges from moderate terrain to relatively flat valley floors. Approximately 63% of the WAU is in the lowland zone with 23% of the WAU in the rain dominated zone and only 9% in the peak rain on snow zone. The average annual rainfall in the WAU is 47". The elevation ranges from 0' to 2,513 with the average being 635'. There are a total of 28,405 acres in the WAU with 11,955 acres of DNR ownership. Major timber types are Douglas-fir and western hemlock.

The Sutherland-Aldwell WAU ranges from steep terrain to relatively flat valley floors. Approximately 21% of the WAU is in the lowland zone with 23% of the WAU in the rain dominated zone and only 38% in the peak rain on snow zone. The average annual rainfall in the WAU is 50". The elevation ranges from 0' to 6,389' with the average being 2,030'. There are a total of 29,625 acres in the WAU with 6,173 acres of DNR ownership. Major timber types are Douglas-fir and western hemlock.

2) *Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).*
This timber sale proposal is located at the mid elevations of the WAU's on terrain ranging from relatively flat ridge top to steep sidehill. The steep slopes are found in the interior of this proposal and the flat slopes are on the North and South boundaries. The sale boundaries are designed to minimize harvest on unstable slopes.

b. What is the steepest slope on the site (approximate percent slope)? **90%**

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland. *Note: The following table is created from state soil survey data. It is a roll-up of general soils information for the soils found in the entire sale area. It is only one of several site assessment tools used in conjunction with actual site inspections for slope stability concerns or erosion potential. It can help indicate potential for shallow, rapid soil movement, but often does not represent deeper soil sub-strata. The actual soils conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors. The state soil survey is a compilation of various surveys with different standards.*

State Soil Survey #	Soil Texture or Soil Complex Name	% Slope	Acres	Mass Wasting Potential	Erosion Potential
4332	GRAVELLY LOAM	30-65	52	LOW	MEDIUM
8047	V.GRAVELLY SANDY LOAM	30-65	20	LOW	HIGH

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.
The statewide landslide inventory (LSI) screening tool indicates the presence of polygons mapped as potential unstable terrain on this proposal. The LSI screening tool is available on the Forest Practices division website under the State Uplands Viewing tool.

1) *Surface indications:*
A State Lands slope stability specialist conducted a remote and field review of LSI mapped features as moderate hazard. The steepest slopes in the middle of the proposal were reviewed in the field by a State Lands slope stability specialist. The field review was determined to have no Forest Practices rule identified features and is a low risk of delivery potential.

2) *Is there evidence of natural slope failures in the sub-basin(s)?*
☐*No* ☒*Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:*
There is some evidence of natural slope failures in the steeper, higher areas of the WAU's. These are generally associated with steep stream channels and headwalls. None of these areas are found within the immediate area of the proposal.

3) *Are there slope failures in the sub-basin(s) associated with timber harvest activities or roads?*
☐*No* ☒*Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:*
Associated management activity:
Slope failures associated with harvest activities have occurred on steep ground within the WAU's. Most of these have been associated with harvest and past road construction practices on unstable slopes.
No known failures associated with harvest activities are present in the immediate vicinity of this proposal.

4) *Is the proposed site similar to sites where slope failures have occurred previously in the sub-basin(s)?*
☒*No* ☐*Yes, describe similarities between the conditions and activities on these sites:*

5) *Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.*
This proposal was designed to avoid operations on or near unstable slopes.
Harvest systems have been designed to limit ground based logging to slopes less than 35% and will not be permitted during periods of wet weather.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.
Approx. acreage new roads: **0.6** *Approx. acreage new landings:* **0.5** *Fill source:* **Place Pit**

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
Yes. A small amount of incidental surface erosion could occur during the course of road construction and harvest activities. However, prudent road location, construction, and maintenance, as well as the mitigating measures outlined in question h. below will minimize and control any possible erosion.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):*
Less than 1%

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
(Include protection measures for minimizing compaction or rutting.)
A field review was conducted and found no Forest Practices rule identified features and is at a low risk of delivery potential. Harvesting and road construction will be restricted during periods of heavy rainfall when rutting and surface erosion may occur. Roads will be constructed with properly located ditches, ditch outs and cross drains to divert water onto stable forest floor and/or into stable natural drainages. Ground based operations will be suspended during periods of wet weather or wet soil conditions when rutting of skid or shovel roads begins. Leave trees are scattered and clumped throughout the sale units. Harvested areas will be reforested within one growing season of the expiration of the contract.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust *from truck traffic, rock mining, crushing or hauling*, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.
Insignificant amounts of engine exhaust from logging equipment and dust from passage of log trucks. Logging slash, if burned, will be burned adhering to the State's smoke management plan.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.
No

c. Proposed measures to reduce or control emissions or other impacts to air, if any:
None

3. Water

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. *(See timber sale map available at DNR region office, or forest practice application base maps.)*

a) Downstream water bodies:
There are no streams on or near this proposal.

b) Complete the following riparian & wetland management zone table:

Wetland, Stream, Lake, Pond, or Saltwater Name (if any)	Water Type	Number (how many?)	Avg RMZ/WMZ Width in Feet (per side for streams)
None			
None			
None			
None			

c) List RMZ/WMZ protection measures including silvicultural prescriptions, road-related RMZ/WMZ protection measures, and wind buffers.
There are no streams on or near this proposal.

2) Will the project require any work over, in, or adjacent to (within 200 feet) to the described waters? If yes, please describe and attach available plans.
☒*No* ☐*Yes (See RMZ/WMZ table above and timber sale map available at DNR region office.)*
Description (include culverts):

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.
None

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. *(Include diversions for fish-passage culvert installation.)*
☒*No* ☐*Yes, description:*

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
☒*No* ☐*Yes, describe location:*

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.
☒*No* ☐*Yes, type and volume:*

7) *Does the sub-basin contain soils or terrain susceptible to surface erosion and/or mass wasting? What is the potential for eroded material to enter surface water?*
These WAU's do contain terrain susceptible to surface and/or mass erosion. Generally, the high potential areas are located in the higher elevations and are associated with steep unstable terrain. Surface erosion control/prevention measures discussed in B.1.h. would minimize or prevent delivery to surface waters.

8) *Is there evidence of changes to the channels in the WAU and sub-basin(s) due to surface erosion or mass wasting (accelerated aggradations, erosion, decrease in large organic debris (LOD), change in channel dimensions)?*
☐*No* ☒*Yes, describe changes and possible causes:*
Yes, areas within the WAU's do show evidence of changes to stream channels. Some steep drainages in the WAU's show evidence of debris torrent events which have increased the dimensions of affected drainage channels, exposed native bedrock which now forms the floor along segments of channels, and decreased the overall amount of large woody debris in the streams. These events may be attributed to past road construction techniques, unstable slopes, or significant amounts of precipitation in short time periods.

9) *Could this proposal affect water quality based on the answers to the questions 1-8 above?*
☐*No* ☒*Yes, explain:*
This proposal will have minimal effect on water quality due to sale design and protection measures as described throughout this document.

10) *What are the approximate road miles per square mile in the WAU and sub-basin(s)?*
Approximately 1.1 miles per section in the Sutherland-Aldwell WAU and 2.3 miles per section in the Salt Creek WAU.

Are you aware of areas where forest roads or road ditches intercept sub-surface flow and deliver surface water to streams, rather than back to the forest floor?
☐*No* ☒*Yes, describe:*
Some roads within the WAU's intercept sub-surface flow and deliver it to streams. In recent years an emphasis has been placed on using more cross-drain culverts both on new road construction and on existing road reconstruction. This has resulted in more ditch water being diverted back to the forest floor.

11) *Is the proposal within a significant rain-on-snow (ROS) zone? If not,* ***STOP HERE*** *and go to question B-3-a-13 below. Use the WAU or sub-basin(s) for the ROS percentage questions below.*
☐*No* ☒*Yes, approximate percent of WAU in significant ROS zone.*
Approximate percent of sub-basin(s):
The Sutherland/Aldwell WAU has approximately 66% of its area within within the ROS zone.

12) *If the proposal is within the significant ROS zone, what is the approximate percentage of the WAU or sub-basin(s) within the significant ROS zone (all ownerships) that is (are) rated as hydrologically mature?*
As per HCP Procedure 14-004-060 pertaining to hydrologic maturity this site was not assessed for hydrologic maturity as less than one-third of the Type 3 sub-basin's area is within the rain-on-snow and snow-dominated zones combined.

13) *Is there evidence of changes to channels associated with peak flows in the WAU or sub-basin(s)?*
☐*No* ☒*Yes, describe observations:*
As described above, some of the larger stream banks can erode during periods of high water and steep headwall areas can fail during rain-on-snow events. The mass wasting described in B.1.d.2. above occurs during peak flow events and can result in accelerated sediment aggradations. Lack of LWD can contribute to stream channelization during peak flow events.

14) *Based on your answers to questions B-3-a-10 through B-3-a-13 above, describe whether and how this proposal, in combination with other past, current, or reasonably foreseeable proposals in the WAU and sub-basin(s), may contribute to a peak flow impact.*
There are no water resources on or near this proposal.

15) *Is there water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity that could be affected by changes in surface water amounts, quality, or movements as a result of this proposal?*
☒*No* ☐*Yes, possible impacts:*

16) *Based on your answers to questions B-3-a-10 through B-3-a-15 above, note any protection measures addressing possible peak flow/flooding impacts.*
Recent increases in the number and spacing of culverts to divert water to the forest floor. See B.1.h, B.3.a.1.c and A.13 for additional protection measures.

b. Ground *Water*:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.
No

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.
None

3) *Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or down slope of the proposed activity that could be affected by changes in groundwater amounts, timing, or movements as a result this proposal?*
☒*No* ☐*Yes, describe:*

a) *Note protection measures, if any.*
None

c. Water Runoff (including storm water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.
Storm water runoff will be collected by road ditches and diverted through cross drain culverts and ditch outs onto stable forest floor.

2) Could waste materials enter ground or surface waters? If so, generally describe.
No

a) *Note protection measures, if any.*
None

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:
(See surface water, ground water, and water runoff sections above, questions B-3-a-1-c, B-3-a-16, B-3-b-3-a, and B-3-c-2-a.)
Roads have ditches, ditch outs, and cross drains to divert water to stable forest floor material, and intercepted groundwater will be directed and discharged along its original flow path.

4. Plants

a. Check or circle types of vegetation found on the site:

☒deciduous tree: ☒alder, ☒maple
☒evergreen tree: ☒*Douglas fir*
☒*western hemlock* ☒*red cedar*
☒shrubs: ☒*huckleberry,* ☒*salal*
☒wet soil plants: **None**
☒water plants: **None**

b. What kind and amount of vegetation will be removed or altered? *(See answers to questions A-11-a, A-11-b, B-3-a-1-b and B-3-a-1-c. The following sub-questions merely supplement those answers.)*
Approximately 1,982 mbf of conifer timber.

1) Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See landscape/WAU and adjacency maps on the DNR website at: http://www.dnr.wa.gov under "SEPA Center.")
Kari Rat is bordered to the North by 90 year old and 35 year old DNR timber, East by DNR 10 year old reproduction, South by 65 year old DNR timber and West by 10 year old reproduction.

2) Retention tree plan:
An average of eight trees per acre have been left aggregated and dispersed throughout the proposed unit. Large, structurally unique trees and snag recruitment trees were chosen for individual retention as well as exposed wind firm trees along windward edges of the stands. These marked leave trees and leave tree clumps will expedite the development of a more diverse, multi-storied canopy layer in the future stand.

c. List threatened or endangered *plant* species known to be on or near the site.

TSU_Number	FMU_ID	Common Name	Federal Listing Status	WA State Listing Status
None Found in Database Search				

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:
To preserve structural diversity and to meet the requirements of our HCP a minimum of 8 trees per acre have been left both clumped and dispersed throughout the sale area. Retention trees will consist of dominant and co-dominant crown classes. These marked leave trees will expedite the development of a more diverse, multi-storied canopy in the future stand.

5. Animal

a. Circle or check any birds animals *or unique habitats* which have been observed on or near the site or are known to be on or near the site:

birds: ☒songbirds
mammals: ☒deer, ☒bear, ☒elk
fish: **None**
unique habitats: ☒*cliffs*

b. List any threatened or endangered species known to be on or near the site *(include federal- and state-listed species).*

TSU Number	FMU_ID	Common Name	Federal Listing Status	WA State Listing Status
1	71354	SPOTTED OWL: Site:94-BEAR VALLEY	THREATENED	ENDANGERED
1	71354	SPOTTED OWL: Site:741-SALT CREEK	THREATENED	ENDANGERED
1	71354	SPOTTED OWL: Site:54-MT BALDY	THREATENED	ENDANGERED
1	71354	SPOTTED OWL: Site:1065-MT BALDY WEST	THREATENED	ENDANGERED
1	71354	MARBLED MURRELET: Reference No: 48142	THREATENED	THREATENED
1	71354	MARBLED MURRELET: Reference No: 48141	THREATENED	THREATENED

c. Is the site part of a migration route? If so, explain.
☒ *Pacific flyway* ☐ *Other migration route:* *Explain if any boxes checked:*
This site is part of the Pacific flyway but is not used extensively for resting or feeding by waterfowl.

d. Proposed measures to preserve or enhance wildlife, if any:
The design of this project is consistent with current comprehensive plans and procedures pertaining to DNR's Habitat Conservation Plan and the state Forest Practices Act.

1) *Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.*
Species /Habitat: **Northern Spotted Owl** Protection Measures: **This proposal falls within the Bear Valley NSO Status 4 owl circle and the Salt Creek, Mt. Baldy West and Mt. Baldy NSO Status 1 owl circles. The proposal does not contain sub-mature or young forest marginal habitat and complies with the HCP and March 2006 settlement agreement for Northern Spotted Owls.**

Species /Habitat: **Marbled Murrelet** Protection Measures: **The timber sale proposal is located in reclassified released Marbled Murrelet habitat and is consistent with the DNR's HCP strategy for Marbled Murrelets. The proposal is in the Sutherland-Aldwell WAU which contained 1,933 acres of reclassified habitat. Subject to site-specific constraints, up to 50% of that habitat (965 ac) could be harvested under the HCP interim strategy. After this proposed harvest is completed, 94 acres of released reclassified murrelet habitat will have been harvested.**

An average of eight trees per acre have been left aggregated and dispersed throughout the proposed unit. Large, structurally unique trees and snag recruitment trees were chosen for individual retention as well as exposed wind firm trees along windward edges of the stands. These marked leave trees and leave tree clumps will expedite the development of a more diverse, multi-storied canopy layer in the future stand. One band of cliffs was located in the eastern portion of the proposal. This area was bounded out and protected with clumped retention.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.
None

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.
No

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:
None

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

1) Describe special emergency services that might be required.
Fire suppression, hazardous waste cleanup.

2) Proposed measures to reduce or control environmental health hazards, if any:
The timber sale contract requires purchaser to minimize risk of fire and does not allow for disposal of any kind of waste on any State lands.

b. **Noise**

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?
None

2) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from this site.

Noise from heavy equipment and log truck traffic while the sale is active.

3) Proposed measures to reduce or control noise impacts, if any:
None

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? *(Site includes the complete proposal, e.g. rock pits and access roads.)*
Forest Land

b. Has the site been used for agriculture? If so, describe.
No

c. Describe any structures on the site.
None

d. Will any structures be demolished? If so, what?
None

e. What is the current zoning classification of the site?
Forest land

f. What is the current comprehensive plan designation of the site?
Commercial forest use.

g. If applicable, what is the current shoreline master program designation of the site?
Does not apply.

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.
No

i. Approximately how many people would reside or work in the completed project?
None

j. Approximately how many people would the completed project displace?
None

k. Proposed measures to avoid or reduce displacement impacts, if any:
None

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
The design of this project is consistent with current comprehensive plans and procedures pertaining to DNR's Habitat Conservation Plan and the state Forest Practices Act.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.
None

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.
None

c. Proposed measures to reduce or control housing impacts, if any:
None

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principle exterior building material(s) proposed?
Does not apply.

b. What views in the immediate vicinity would be altered or obstructed?

1) *Is this proposal visible from a residential area, town, city, developed recreation site, or a scenic vista?*
☒*No* ☐*Yes, viewing location:*

2) *Is this proposal visible from a major transportation or designated scenic corridor (county road, state or interstate highway, US route, river, or Columbia Gorge SMA)?*
☐*No* ☒*Yes, scenic corridor name:*
This proposal will be briefly visible from US Highway 101.

3) *How will this proposal affect any views described in 1) or 2) above?*
This proposal will be briefly visible along Highway 101. It is located in the background of the visible area.

c. Proposed measures to reduce or control aesthetic impacts, if any:
Kari Rat has been designed to minimize adverse aesthetic impacts. Leave trees and reserve trees were selected to provide structural diversity as well as aesthetic diversity. A Leave Tree Area was strategically placed in front of the visible area to further minimize aesthetic impacts. In addition the site will be reforested with conifer seedlings within one year of completion of harvest.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?
None

b. Could light or glare from the finished project be a safety hazard or interfere with views?
None

c. What existing off-site sources of light or glare may affect your proposal?
None

d. Proposed measures to reduce or control light and glare impacts, if any:
None

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?
Dispersed informal recreation in the form of hunting, hiking, fishing, berry picking, sightseeing, etc.

b. Would the proposed project displace any existing recreational uses? If so, describe:
No

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:
None

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for national, state, or local preservation registers known to be on or next to the site? If so, generally describe.
No

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.
None

c. Proposed measures to reduce or control impacts, if any:
(Include all meetings or consultations with tribes, archaeologists, anthropologists or other authorities.)
None

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.
The sale proposal will be accessed via Highway 101, PA-J-1000, PA-J-1600 and the I-2610 forest roads.

1) Is it likely that this proposal will contribute to an existing safety, noise, dust, maintenance, or other transportation impact problem(s)?
No

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?
No

c. How many parking spaces would the completed project have? How many would the project eliminate?
Does not apply

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).
Yes, approximately 1,658 feet of optional new construction and 13,958 feet of required pre haul maintenance are planned for this proposal. Pre haul maintenance will consist of brushing, shaping, grading, and ditching the existing road prism.

1) How does this proposal impact the overall transportation system/circulation in the surrounding area, if at all?
This proposal will not affect the overall transportation system in the area.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.
No

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.
Approximately 12- 20 trips per day during peak harvest activity.

g. Proposed measures to reduce or control transportation impacts, if any:
Roads will be constructed in compliance with the HCP and Forest Practice requirements and will divert storm water onto stable forest floor. To avoid erosion and impacts to water quality, soils exposed during culvert installation will be grass seeded and covered with hay. To protect soil productivity and reduce erosion, ground based operations will be suspended during periods of wet weather or wet soil conditions when rutting of skid or shovel roads begins.

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.
Does not apply.

b. Proposed measures to reduce or control direct impacts on public services, if any.

b. Proposed measures to reduce or control direct impacts on public services, if any.
Does not apply.

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.
Does not apply.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.
Does not apply.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Completed by: **Mike Potter** 

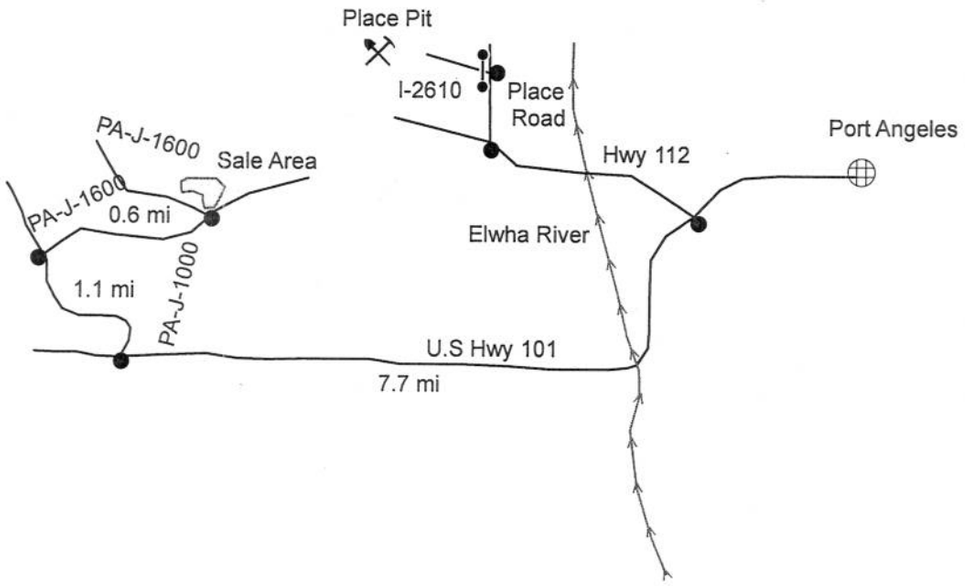
Title **Coast Forester 2**

Date: **8/04/09**

DRIVING MAP

SALE NAME: KARI RAT
AGREEMENT#: 30-084830
TOWNSHIP(S): T30N - 8W
TRUST(S): CLALLAM COUNTY FOREST BOARD (01)

REGION: OLYMPIC
COUNTY(S): CLALLAM
ELEVATION RGE: 1,500 - 2,000 FEET



VICINITY MAP
NOT TO SCALE

Legend

Road

Sale Area

DRIVING DIRECTIONS
From Port Angeles head West on U.S Hwy 101and travel 12.5 miles.
Turn right on the PA-J-1000 and travel 1.1 miles.
Turn right on the PA-J-1600 and travel 0.6 miles.

Place Pit: From Port Angeles travel 4.8 miles west on Hwy 101, turn right on Hwy 112 and travel 2.2 miles to Place Road. Turn right on Place road and drice 1.5 miles to the I-2610 road on left. Pit is located behind gate on I-2610 road.

N

Prepared By: Huber

Creation Date: June 12, 2009

Modification Date: August 20, 2009